



SEQUENCE LISTING

<110> Iwao OHIZUMI
Mikiyoshi SAITO

<120> PREPARATION OF ANTIBODY USING MRL/lpr MOUSE

<130> 1254-0274PUS1

<140> US 10/526,372

<141> 2005-03-03

<150> PCT/JP02/08998

<151> 2002-09-04

<160> 6

<170> PatentIn Ver. 2.1

<210> 1

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic PCR upper primer

<400> 1

gatatcatgg ccgggaccgt gcgcaccgcg t 31

<210> 2

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic PCR lower primer

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gctagctcag tgaccagga agaagaagca c 31

<210> 3

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic PCR lower primer

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atagaattcc accatggccg ggaccgtgcg c 31

<210> 4

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<212> DNA

<213> Artificial Sequence

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 <223> Description of Artificial Sequence: Synthetic PCR upper primer

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 ataggatccc ttcagcgggg aatgaacgtt c 31

<210> 5
 <211> 580
 <212> PRT
 <213> Homo sapiens

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 <221> SIGNAL
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 Ala Thr Cys His Gln Val Arg Ser Phe Phe Gln Arg Leu Gln Pro Gly
 35 40 45
 Leu Lys Trp Val Pro Glu Thr Pro Val Pro Gly Ser Asp Leu Gln Val
 50 55 60
 Cys Leu Pro Lys Gly Pro Thr Cys Cys Ser Arg Lys Met Glu Glu Lys
 65 70 75 80
 Tyr Gln Leu Thr Ala Arg Leu Asn Met Glu Gln Leu Leu Gln Ser Ala
 85 90 95
 Ser Met Glu Leu Lys Phe Leu Ile Ile Gln Asn Ala Ala Val Phe Gln
 100 105 110
 Glu Ala Phe Glu Ile Val Val Arg His Ala Lys Asn Tyr Thr Asn Ala
 115 120 125
 Met Phe Lys Asn Asn Tyr Pro Ser Leu Thr Pro Gln Ala Phe Glu Phe
 130 135 140
 Val Gly Glu Phe Phe Thr Asp Val Ser Leu Tyr Ile Leu Gly Ser Asp
 145 150 155 160
 Ile Asn Val Asp Asp Met Val Asn Glu Leu Phe Asp Ser Leu Phe Pro
 165 170 175
 Val Ile Tyr Thr Gln Leu Met Asn Pro Gly Leu Pro Asp Ser Ala Leu
 180 185 190
 Asp Ile Asn Glu Cys Leu Arg Gly Ala Arg Arg Asp Leu Lys Val Phe
 195 200 205
 Gly Asn Phe Pro Lys Leu Ile Met Thr Gln Val Ser Lys Ser Leu Gln
 210 215 220
 Val Thr Arg Ile Phe Leu Gln Ala Leu Asn Leu Gly Ile Glu Val Ile
 225 230 235 240
 Asn Thr Thr Asp His Leu Lys Phe Ser Lys Asp Cys Gly Arg Met Leu
 245 250 255
 Thr Arg Met Trp Tyr Cys Ser Tyr Cys Gln Gly Leu Met Met Val Lys
 260 265 270
 Pro Cys Gly Gly Tyr Cys Asn Val Val Met Gln Gly Cys Met Ala Gly
 275 280 285
 Val Val Glu Ile Asp Lys Tyr Trp Arg Glu Tyr Ile Leu Ser Leu Glu
 290 295 300
 Glu Leu Val Asn Gly Met Tyr Arg Ile Tyr Asp Met Glu Asn Val Leu

305					310					315				320
Leu	Gly	Leu	Phe	Ser	Thr	Ile	His	Asp	Ser	Ile	Gln	Tyr	Val	Gln
				325					330					335
Asn	Ala	Gly	Lys	Leu	Thr	Thr	Thr	Ile	Gly	Lys	Leu	Cys	Ala	His
			340					345					350	
Gln	Gln	Arg	Gln	Tyr	Arg	Ser	Ala	Tyr	Tyr	Pro	Glu	Asp	Leu	Phe
		355					360					365		
Asp	Lys	Lys	Val	Leu	Lys	Val	Ala	His	Val	Glu	His	Glu	Glu	Thr
	370				375						380			
Ser	Ser	Arg	Arg	Arg	Glu	Leu	Ile	Gln	Lys	Leu	Lys	Ser	Phe	Ile
385					390				395					400
Phe	Tyr	Ser	Ala	Leu	Pro	Gly	Tyr	Ile	Cys	Ser	His	Ser	Pro	Val
			405						410					415
Glu	Asn	Asp	Thr	Leu	Cys	Trp	Asn	Gly	Gln	Glu	Leu	Val	Glu	Arg
			420					425					430	
Ser	Gln	Lys	Ala	Ala	Arg	Asn	Gly	Met	Lys	Asn	Gln	Phe	Asn	Leu
		435					440					445		
Glu	Leu	Lys	Met	Lys	Gly	Pro	Glu	Pro	Val	Val	Ser	Gln	Ile	Ile
	450				455						460			
Lys	Leu	Lys	His	Ile	Asn	Gln	Leu	Leu	Arg	Thr	Met	Ser	Met	Pro
465					470					475				480
Gly	Arg	Val	Leu	Asp	Lys	Asn	Leu	Asp	Glu	Glu	Gly	Phe	Glu	Ser
			485						490				495	
Asp	Cys	Gly	Asp	Asp	Glu	Asp	Glu	Cys	Ile	Gly	Gly	Ser	Gly	Asp
			500					505					510	
Met	Ile	Lys	Val	Lys	Asn	Gln	Leu	Arg	Phe	Leu	Ala	Glu	Leu	Ala
		515				520						525		
Asp	Leu	Asp	Val	Asp	Asp	Ala	Pro	Gly	Asn	Ser	Gln	Gln	Ala	Thr
	530					535					540			
Lys	Asp	Asn	Glu	Ile	Ser	Thr	Phe	His	Asn	Leu	Gly	Asn	Val	His
545					550				555					560
Pro	Leu	Lys	Leu	Leu	Thr	Ser	Met	Ala	Ile	Ser	Val	Val	Cys	Phe
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Phe	Leu	Val	His											
			580											

<210> 6
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 <212> PRT
 <213> Mus musculus

<220>
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 <222> (1)..(19)

<220>
 <221> SIGNAL
 <222> (561)..(579)

<400> 6
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 1 5 10 15
 Gly Leu Gly Cys Leu Gly Gln Ala Gln Pro Pro Pro Pro Pro Asp Ala
 20 25 30
 Thr Cys His Gln Val Arg Ser Phe Phe Gln Arg Leu Gln Pro Gly Leu
 35 40 45

Lys Trp Val Pro Glu Thr Pro Val Pro Gly Ser Asp Leu Gln Val Cys
 50 55 60
 Leu Pro Lys Gly Pro Thr Cys Cys Ser Arg Lys Met Glu Glu Lys Tyr
 65 70 75 80
 Gln Leu Thr Ala Arg Leu Asn Met Glu Gln Leu Leu Gln Ser Ala Ser
 85 90 95
 Met Glu Leu Lys Phe Leu Ile Ile Gln Asn Ala Ala Val Phe Gln Glu
 100 105 110
 Ala Phe Glu Ile Val Val Arg His Ala Lys Asn Tyr Thr Asn Ala Met
 115 120 125
 Phe Lys Asn Asn Tyr Pro Ser Leu Thr Pro Gln Ala Phe Glu Phe Val
 130 135 140
 Gly Glu Phe Phe Thr Asp Val Ser Leu Tyr Ile Leu Gly Ser Asp Ile
 145 150 155 160
 Asn Val Asp Asp Met Val Asn Glu Leu Phe Asp Ser Leu Phe Pro Val
 165 170 175
 Ile Tyr Thr Gln Met Met Asn Pro Gly Leu Pro Glu Ser Ala Leu Asp
 180 185 190
 Ile Asn Glu Cys Leu Arg Gly Ala Arg Arg Asp Leu Lys Val Phe Gly
 195 200 205
 Ser Phe Pro Lys Leu Ile Met Thr Gln Val Ser Lys Ser Leu Gln Val
 210 215 220
 Thr Arg Ile Phe Leu Gln Ala Leu Asn Leu Gly Ile Glu Val Ile Asn
 225 230 235 240
 Thr Thr Asp His Leu Lys Phe Ser Lys Asp Cys Gly Arg Met Leu Thr
 245 250 255
 Arg Met Trp Tyr Cys Ser Tyr Cys Gln Gly Leu Met Met Val Lys Pro
 260 265 270
 Cys Gly Gly Tyr Cys Asn Val Val Met Gln Gly Cys Met Ala Gly Val
 275 280 285
 Val Glu Ile Asp Lys Tyr Trp Arg Glu Tyr Ile Leu Ser Leu Glu Glu
 290 295 300
 Leu Val Asn Gly Met Tyr Arg Ile Tyr Asp Met Glu Asn Val Leu Leu
 305 310 315 320
 Gly Leu Phe Ser Thr Ile His Asp Ser Ile Gln Tyr Val Gln Lys Asn
 325 330 335
 Gly Gly Lys Leu Thr Thr Thr Ile Gly Lys Leu Cys Ala His Ser Gln
 340 345 350
 Gln Arg Gln Tyr Arg Ser Ala Tyr Tyr Pro Glu Asp Leu Phe Ile Asp
 355 360 365

Lys Lys Ile Leu Lys Val Ala His Val Glu His Glu Glu Thr Leu Ser
 370 375 380
 Ser Arg Arg Arg Glu Leu Ile Gln Lys Leu Lys Ser Phe Ile Asn Phe
 385 390 395 400
 Tyr Ser Ala Leu Pro Gly Tyr Ile Cys Ser His Ser Pro Val Ala Glu
 405 410 415
 Asn Asp Thr Leu Cys Trp Asn Gly Gln Glu Leu Val Glu Arg Tyr Ser
 420 425 430
 Gln Lys Ala Ala Arg Asn Gly Met Lys Asn Gln Phe Asn Leu His Glu
 435 440 445
 Leu Lys Met Lys Gly Pro Glu Pro Val Val Ser Gln Ile Ile Asp Lys
 450 455 460
 Leu Lys His Ile Asn Gln Leu Leu Arg Thr Met Ser Val Pro Lys Gly
 465 470 475 480
 Lys Val Leu Asp Lys Ser Leu Asp Glu Glu Gly Leu Glu Ser Gly Asp
 485 490 495
 Cys Gly Asp Asp Glu Asp Glu Cys Ile Gly Ser Ser Gly Asp Gly Met
 500 505 510
 Val Lys Val Lys Asn Gln Leu Arg Phe Leu Ala Glu Leu Ala Tyr Asp
 515 520 525
 Leu Asp Val Asp Asp Ala Pro Gly Asn Lys Gln His Gly Asn Gln Lys
 530 535 540
 Asp Asn Glu Ile Thr Thr Ser His Ser Val Gly Asn Met Pro Ser Pro
 545 550 555 560
 Leu Lys Ile Leu Ile Ser Val Ala Ile Tyr Val Ala Cys Leu Phe Phe
 565 570 575
 Leu Val His